

DIVISION FOR AIR QUALITY

(Submit copies of this form for each individual unit.
Make additional copies as needed)

DEP7007A
INDIRECT HEAT EXCHANGER, TURBINE, INTERNAL COMBUSTION ENGINE

Emission Point # _____
Emission Unit # _____

1) Type of Unit (Make, Model, Etc.): _____
Date Installed: _____ Cost of Unit: _____
(Date unit was installed, modified or reconstructed, whichever is later.)

Where more than one unit is present, identify with Company's identification or code for this unit: _____

- 2a) Kind of Unit (Check one):
1. Indirect Heat Exchanger _____
 2. Gas Turbine for Electricity Generation _____
 3. Pipe Line Compressor Engines:
 _____ Gas Turbine
 _____ Reciprocating engines
 (a) 2-cycle lean burn _____
 (b) 4-cycle lean burn _____
 (c) 4-cycle rich burn _____
 4. Industrial Engine _____
- 2b) Rated Capacity: (Refer to manufacturer's specifications)
1. Fuel input (mmBTU/hr): _____
 2. Power output (hp): _____
 Power output (MW): _____

SECTION 1. FUEL

3) Type of Primary Fuel (Check):

_____ A. Coal _____ B. Fuel Oil # (Check one) _____ 1 _____ 2 _____ 3 _____ 4 _____ 5 _____ 6
_____ C. Natural Gas _____ D. Propane _____ E. Butane _____ F. Wood _____ G. Gasoline
_____ H. Diesel _____ I. Other (specify) _____

4) Secondary Fuel (if any, specify type): _____

5) Fuel Composition

Type	Percent Ash ^a	Percent Sulfur ^b	Heat Content Corresponding to: ^{c, d}	
	Maximum	Maximum	Maximum Ash	Maximum Sulfur
Primary				
Secondary				

- a. As received basis. Proximate Analysis for Ash. (May use values in your fuel contract)
b. As received basis. Ultimate Analysis for Sulfur. (May use values in your fuel contract)
c. Higher Heating Value, BTU/Unit. (May use values in your fuel contract)
d. Suggested units are: Pounds for solid fuel, gallon for liquid fuels, and cu. Ft. for gaseous fuels. If other units are used, please specify.

6) Maximum Annual Fuel Usage Rate (please specify units)*: _____

7) Fuel Source or supplier: _____

*Should be entered only if applicant requests operating restriction through federally enforceable limitations.

8) MAXIMUM OPERATING SCHEDULE FOR THIS UNIT*

___ hours/day ___ days/week ___ weeks/year

9) If this unit is multipurpose, describe percent in each use category:

Space Heat ___ % Process Heat ___ % Power ___ %

10) Control options for turbine/IC engine (Check)

___ (1) Water Injection	___ (2) Steam Injection
___ (3) Selective Catalytic Reduction (SCR)	___ (3) Non-Selective Catalytic Reduction (NSCR)
___ (5) Combustion Modification	___ (5) Other (Specify) _____

IMPORTANT: Form DEP7007N must also be completed for this unit.

SECTION II COMPLETE ONLY FOR INDIRECT HEAT EXCHANGERS
11) Coal-Fired Units

___ Pulverized Coal Fired:

___ Dry Bottom ___ Wall Fired
 ___ Wet Bottom ___ Tangentially Fired

___ Cyclone Furnace

___ Overfeed Stoker

___ Fluidized Bed Combustor:
 ___ Circulating Bed
 ___ Bubbling Bed

Fly Ash Rejection:

☐ Yes ☐ No

___ Spreader Stoker

___ Underfeed Stoker

___ Hand-fed

___ Other (specify) _____

12) Oil-Fired Unit

___ Tangentially (Corner) Fired

___ Horizontally Opposed (Normal) Fired

13) Wood-Fired Unit

Fly-Ash Reinjection: ☐ Yes ☐ No

___ Dutch Oven/Fuel Cell Oven ___ Stoker ___ Suspension Firing

___ Fluidized Bed Combustion (FBC)

14) Natural Gas-Fired Units

___ Low NO_x Burners: ☐ Yes ☐ No

___ Flue Gas Recirculation: ☐ Yes ☐ No

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15) Combustion Air Draft: _____ Natural _____ Induced

Forced Pressure _____ lbs/sq. in.

Percent excess air (air supplied in excess of theoretical air) _____ %

SECTION III

16) Additional Stack Data

A. Are sampling ports provided? ☐ Yes ☐ No

B. If yes, are they located in accordance with 40 CFR 60*? ☐ Yes ☐ No

C. List other units vented to this stack _____

17) Attach manufacturer's specifications and guaranteed performance data for the indirect heat exchanger. Include information concerning fuel input, burners and combustion chamber dimensions.

18) Describe fuel transport, storage methods and related dust control measures, including ash disposal and control.

*Applicant assumes responsibility for proper location of sampling ports if the Division for Air Quality requires a compliance demonstration stack test.